

## **I CLAIM:**

1. A method for improving a common mode feedback amplifier, said method comprising:

5       mixing signals of the common mode feedback amplifier, to increase working range of the common mode feedback amplifier, and to prevent output signals of the common mode feedback amplifier from being seriously distorted due to operating limit of the common mode feedback amplifier.

2. A common mode feedback circuit comprising:

10       a common mode feedback amplifier unit including output signals and a reference signal, and

      a differential adjusting unit for calibrating and adjusting the output signals of said common mode feedback amplifier unit, to prevent the DC voltage of output signals of said common mode feedback amplifier with differential adjusting unit from being deviated, and to prevent the output signals of said common mode feedback amplifier with differential adjusting unit from being distorted.

3. The common mode feedback circuit as claimed in claim 2, wherein said differential adjusting unit includes two sets of gain amplifiers having identical structure.

4. The common mode feedback circuit as claimed in claim 2, wherein said differential adjusting unit includes signals from the output terminals of said common mode feedback amplifier unit.

25       5. The common mode feedback circuits as claimed in claim 3, wherein said gain amplifiers include two input signals as differential signals relative to each other.

6. The common mode feedback device as claimed in claim 3,  
wherein the two differential input signals of a first gain amplifier of  
said gain amplifiers are identical to the two differential input signals  
of a second gain amplifier of said gain amplifiers, but coupled in  
5 reverse relative to the two differential input signals of said second  
gain amplifier.

7. The common mode feedback device as claimed in claim 6,  
wherein said two sets of gain amplifiers output two differential  
signals that are complementary with each other.

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